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MESSAGE FROM THE GENERAL CO-CHAIRS



Sergey Balandin



Marcin Matuszewski



Jörg Ott

On behalf of the IEEE CCNC 2010 Organizing Committee, it is our pleasure to welcome you to the Seventh Annual IEEE Consumer Communications and Networking Conference.

This year's edition of IEEE CCNC continues to follow its well-recognized tradition of combining theory and practice and bringing together academia and industry in one of the key future growth areas of consumer communications as all of us easily witness every day. In spite of the tough economic times in 2008 and 2009, IEEE CCNC has received a great number of submissions, allowing us to compile a comprehensive program with excellent contributions. Numerous distinguished industry

experts offer keynotes and tutorials to our participants. We are also continuing our integration with CES: to simplify participation of CES attendees in our series of workshops, this year, we start IEEE CCNC with our workshops on Saturday.

IEEE CCNC 2010 further emphasizes consumer communications as its core theme. Not only by developing an even stronger focus reflecting in the reshaping of some of our six tracks to what really matters to consumers. But also by choosing targeted topics for our six workshops that explore novel directions and offer fora for recent research results from personal and mobile (multimedia) entertainment and communications. And, with eight tutorials, by capturing the key topics of today's and tomorrow's consumer services. These are complemented by nine special sessions dedicated to topics from wireless communications to location awareness to ecological home networks to multimedia entertainment and completed by a set of industry panels to look at market opportunities and directions. IEEE CCNC thus continues recognizing the need for an exchange platform across layers, businesses, and academia/industry and provides a premier venue meeting this demand!

We are proud to be able to welcome three high-caliber distinguished speakers from industry sharing their perspectives with us. The conference will begin on Saturday with a keynote address by Dr. I.P. Park, Vice President, Director of Computer Science Laboratory at the Samsung Advanced Institute of Technology. On Sunday morning, our keynote speaker will be Dr. John Paul Shen, the head of Nokia Research Center, Palo Alto. On Monday, we are pleased to announce an invited plenary presentation by Dr. Henry Sinnreich, Adobe Systems, also known as the Godfather of SIP.

We are confident that you will find a multitude of stimulating presentations and interesting in the technical sessions and want to thank Gary Chan for putting together an extremely strong set of papers across all topics relevant to consumer communications. Gary's introduction on the following pages will provide you with further guidance where to set your sights on. The regular and special sessions are augmented by work-in-progress-style short papers and a PhD forum. This year's IEEE CCNC will continue the past success of live demonstrations, emphasizing its practical side. We are happy to have over 30 demonstrations to be presented in three demonstration sessions.

Following the popularity of the previous years, we again offer complimentary tutorials to all attendees. IEEE CCNC 2010 features eight tutorials on a broad set of topics, from broadband to 4G to various multimedia services to delay-tolerant networking. Please check out the variety of offerings. All tutorials will be taking place on Tuesday.

Finally, we want to extend our thanks to the people who are truly responsible for making this conference a success through their generous contributions of time and energy. Our thanks to: Gary Chan, Technical Program Chair; Xiaoxin Wu, Wireless Home Communication and Networking Vice-Chair; Behrooz Shirazi, Smart Spaces and Personal Area Networks for Consumer Electronics Vice-Chair; Mario Kolberg, Multimedia Communication and Services Vice-Chair; Ali Begen, Content Distribution and Peer-to-Peer Networks Vice-Chair; Christian Becker, Pervasive and Ambient Applications Vice-Chair; Chi-Sung Lai, Security for CE Communications Vice-Chair; Kurt Tutschku, Workshop Chair; Zhu Li, Special Sessions Chair; Yi Cui and Xiaowen Chu, Short Papers Chairs; Cheng Huang, Tutorial Chair; Igor Curcio, Industry Panels Chair; Gene Cheung and Xing Jin, Demonstration Co-Chairs; Rangarao Venkatesha Prasad, On-Site Demonstration Chair; Mei Yang, Local Arrangements Chair; Rajarathnam Chandramouli, Best Paper Award Committee Chair; Alan Kaplan, Publication Chair; Alex Gelman, Publicity Chair; Rob Fish, Patron Chair; Stan Moyer, Finance Chair; Bruce Worthman, Treasurer; Heather Ann Sweeney, Marketing; and finally special thanks to Diane Williams, who as ComSoc Project Manager did – once more – a tremendous job of pulling everything together.

We are looking forward to exciting event and hope that you will find IEEE CCNC 2010 enjoyable and a great place to discuss and network.

Sergey Balandin
IEEE CCNC 2010 General Co-Chair
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KEYNOTE SPEAKERS

**John Paul Shen**

Head of Nokia Research Center Palo Alto

John P. Shen is the head of Nokia Research Center Palo Alto. NRC Palo Alto research lab was established in November 2006 and currently houses over 60 researchers and 20 interns working on a wide range of projects on mobile internet applications, services and solutions. Prior to joining Nokia in 2006, John was the Director of the Microarchitecture Research Lab at Intel, which was responsible for developing processor and system architecture innovations that can be incorporated in Intel products and platforms. Prior to joining Intel in 2000, John was a Professor in the Electrical and Computer Engineering Department of Carnegie Mellon University, where he supervised a total of 17 PhD students and numerous MS students and received multiple teaching awards. He is the author or co-author of over 120 published articles and two books, including Modern Processor Design: Fundamentals of Superscalar Processors, McGraw-Hill 2005. John is an IEEE Fellow and received his BS degree from the University of Michigan and

his MS and PhD degrees from the University of Southern California, all in Electrical Engineering. He is currently an Adjunct Professor at Carnegie Mellon Silicon Valley.

**Dr. I.P. Park**

Vice President, Director of Computer Science Laboratory
Samsung Advanced Institute of Technology
Samsung Electronics

Dr. I.P. Park is Vice President and Director of Computer Science Laboratory in Advanced Software Research Center of SAIT, Samsung Electronics. He leads advanced research in various areas including, but not limited to, digital contents technology, artificial intelligence, future web technology, augmented reality and user experience (UX).

Prior to joining Samsung in 2006, I.P. was Department Head of Security and Platform Technologies at Panasonic Princeton Laboratory. He worked in areas of operating system security, embedded Linux systems, and secure download for software-defined radio. I.P. was one of the key members responsible for establishing CE Linux Forum, and served as the founding chair of the Architecture Group.

From 1999 to 2001, I.P. was Senior Director of Software Development at Timecruiser Computing Corporation, an Internet software company specializing in building Java-based enterprise systems. From 1993 to 1999, I.P. was a faculty member at New York Institute of Technology (NYIT) in the computer science department. During this period, he was also a visiting researcher at Bellcore.

I.P. received B.S. in Computer Science from Seoul National University, M.S. and Ph.D. in Computer Science from Columbia University.

**Plenary Technical Presentation:****Dr. Henry Sinnreich**

Abode Systems, California

Henry Sinnreich has worked most of his career in the telecom industry, including 24 years at MCI where he was an MCI Fellow. He has contributed to the development of the first commercial SIP service by a major Carrier, MCI and is also an active contributor to IETF SIP standards work. He is an author of several books on SIP. Dr. Sinnreich is a guest lecturer at Southern Methodist University in Dallas and works at Adobe Systems.